

## Pantelimon Stanica

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*Egotist: a person more interested in himself than in me.*

Ambrose Bierce (1842-1914)

### 1. Education

- *Ph.D. Mathematics*, State University of New York at Buffalo, 1998  
*Thesis: Chromos, Boolean Functions and Avalanche Characteristics*  
Advisor: Professor Thomas W. Cusick, Ph.D.
- *Master of Arts*: Bucharest University, Romania, 1992  
*Thesis: Quadratic Number Fields*, Advisor: Professor Victor Alexandru, Ph.D.
- *Research Interests*: Number Theory, Cryptography, Coding Theory, Combinatorics, Finite Fields, Boolean Functions, Valuation Theory, Class Field Theory, Theoretical Computer Science
- Fluent in English, Romanian; Proficient in French, Italian (and some German)

### 2. Professional experience

- *Associate Professor* (2006-present), Naval Postgraduate School, Department of Applied Mathematics
- *Distinguished Research Professor* (2004-2007) at Auburn University Montgomery
- *Tenured Associate Professor of Mathematics*, 2003-2006, Auburn University Montgomery, Department of Mathematics
- *Assistant Professor of Mathematics*, 1999-2003, Auburn University Montgomery, Department of Mathematics
- *Associate Researcher*, 1992-present, Institute of Mathematics of Romanian Academy, Bucharest, Romania
- *Co-Director of the Sciences Computer Lab*, November 2000-May 2002
- *Visiting Lecturer*, 1996, 1998-1999, State University of New York at Buffalo
- *Teaching Assistant*, 1993-1996, State University of New York at Buffalo
- *Professor Assistant*, 1992-1993, Bucharest University, Romania

### 3. Publications in refereed journals

1. *Minimal Niven Numbers* (with H. Fredricksen, E.J. Ionascu, F. Luca), accepted *Acta Arithmetica*, 2008.
2. *Rotation-Symmetric Functions – Count and Cryptographic Properties* (with S. Maitra), accepted in *Discrete Applied Mathematics*, 2007.
3. *Balanced Symmetric Functions over  $GF(p)$*  (with T.W. Cusick, Yuan Li), accepted in *IEEE Transactions on Inform. Theory*, 2007.

4. **The Independence Number for the Generalized Petersen Graphs** (with J. Fox, R. Gera), accepted in *Ars Combinatoria*, 2007.
5. **Galois Groups of Polynomials Arising from Circulant Matrices** (with M. Filaseta, F. Luca and R. Underwood), *J. Number Theory* 128:1 (2008), 59-70.
6. **Graph eigenvalues and Walsh spectrum of Boolean functions**, *Integers-Journal of Combinatorial Number Theory* 7(2), Art. 32, 2007.
7. **On the delta sequence of the Thue-Morse sequence** (with T.W. Cusick, H. Fredricksen), *Australasian Journal of Combinatorics* 39 (2007), 293-300.
8. **Resolution of some conjectures related to Erdos-Debrunner inequality** (with E. Ionascu, C. Frenzen), *J. Ineq. Pure Appl. Math.* 8 (2007), Issue 3, 13pp.
9. **Two Diophantine Approaches to the Irreducibility of Certain Trinomials** (M. Filaseta, F. Luca, P. Stanica, R.G. Underwood), *Acta Arithmetica* 128 (2007), 149-156.
10. **Heron triangles with two fixed sides** (with E. Ionascu, F. Luca), *J. Number Theory* **126** (2007), 52-67.
11. **Linear Equations with Euler Totient Function** (with F. Luca), *Acta Arithmetica* **128** (2007), 135-147.
12. **Extreme values for the area of rectangles with vertices on concentric circles** (with E. Ionascu), *Elemente der Mathematik* 62:1 (2007), 30-39.
13. **Results on the min-sum vertex cover problem** (with R. Gera, S. Horton, C. Rasmussen), *Congr. Numer.* 178 (2006), 161-172.
14.  $F_1 F_2 F_3 F_4 F_5 F_6 F_8 F_{10} F_{12} = 11!$  (with F. Luca), *Portugaliae Mathematica*, Vol. 63, Fasc. 1 (2006), 251-260.
15. **Almost Hamiltonian Groups** (with T. Foguel), *Resultate der Mathematik* 48 (2005), no. 1-2, 44-49.
16. **On a conjecture of Ma** (with F. Luca), *Resultate der Mathematik (Results in Mathematics)* 48 (2005), no. 1-2, 109-123.
17. **Prime Divisors of Lucas Sequences and a Conjecture of Skalba** (with F. Luca), *International Journal of Number Theory*, Vol. 1, No. 4 (2005) 583-591.
18. **Composition with the Euler and the Carmichael function** (with W. Banks, F. Luca and F. Saidak), *Abhandlungen aus dem Math. Seminar der Universität Hamburg* **75** (2005), 215-243.
19. **Cholesky factorizations of matrices associated with r-order recurrent sequences**, *Integers-Electronic Journal of Combinatorial Number Theory*, Vol. 5(2) (2005), #A16. (Also published in Proceedings of a Conf. in Honor of Tom Brown: Topics in Combinatorial Number Theory, published by DIMATIA, Vol. 261, ITI Series.)
20. **Regular and Strongly Regular Planar Graphs** (with N.B. Limaye, D.G. Sarvate, P. Young), *Journal of Combinatorial Math. and Combinatorial Computing* **54**, 111-127 (2005).
21. **Fibonacci numbers that are not sum of two primes powers** (with F. Luca), *Proceedings of American Mathematical Soc.* **133** (2005), 1887-1890.
22. **Chaotic Dynamics of Some Rational Maps** (with C. Georgescu, C. Joita, W. Nowell), *Discrete and Continuous Dynamical Systems –Ser. A* **12: 2** (2005), 363-375.
23. **Almost Boolean Functions: the Design of Boolean Functions by Spectral Inversion** (with J.A. Clark, J.L. Jacob, S. Maitra), *Computational Intelligence* **20: 3** (2004), 450-462.
24. **Asymptotic expansions for some nonlinear recurrences and almost doubly-exponential sequences** (with E. Ionascu), *Acta Math. Universitatis Comenianae* LXXIII 1 (2004), 1-13.
25. **Boolean Functions with Five Controllable Cryptographic Properties** (with S.-H. Sung), *Designs, Codes and Cryptography* **31** (2004), 147-157.

26. **Generating Functions, Weighted and Non-Weighted Sums for Powers of Second-Order Recurrence Sequences**, *Fibonacci Quarterly* **41** (2003), 321-333.
27. **Rotation Symmetric Functions - Count and Cryptographic Properties** (with S. Maitra). In *Proc. R. C. Bose Centenary Symp. on Discrete Math. And Applications, Electronic Notes in Discrete Mathematics* **15** (2003), 141-147.
28.  **$p^q$  - Catalan Numbers and Squarefree Binomial Coefficients**, *J. Number Theory* **100/2** (2003), 203 - 216.
29. **Inequalities related to rearrangements of powers and symmetric polynomials** (with C. Joita), *J. of Inequalities in Pure and Applied Math.*, **4:2** (2003), art. 37.
30. **Netted Matrices**, *Intern. J. of Math. & Math Sciences* **2003:39** (2003), 2507-2518.
31. **Products of Factorials Modulo  $p$**  (with F. Luca), *Colloquium Mathematicum* **96** (2003), 191-205.
32. **On the prime power factorization of  $n!$**  (with F. Luca), *J. Number Theory* **102/2** (2003), 298-305.
33. **A Constructive Count of Rotation Symmetric Functions** (with S. Maitra), *Information Processing Letters* **88/6** (2003), 299-304.
34. **Nonlinearity, Local and Global Avalanche Characteristics of Balanced Boolean Functions**, *Discrete Mathematics* **248:1-3** (2002), 181-193.
35. **Powers of Pascal's like triangles and Fibonacci sequences** (with Rhodes Peele), *Fibonacci Quarterly* **40** (2002), 146-152.
36. **Inequalities on Linear Functions and Circular Powers**, *J. Inequalities in Pure and Applied Mathematics*, **4:3** (2002), Art. 30.
37. **There are Infinitely Many Smarandache Derivations, Integrations and Lucky Numbers** (with Gabriela Stanica), *Smar. Notions Journal* **13** (2002), 48-52 (recreational mathematics).
38. **Fast Evaluation, Weights and Nonlinearity of Rotation-Symmetric Functions** (with T.W. Cusick), *Discrete Mathematics* **258:1-3** (2002), 289-301.
39. **Muller-Twist or Comply-Constrain Games** (with Furman Smith), *Integers-Electronic Journal of Combinatorial Number Theory*, vol. 3 (2002), art. G3.
40. **Improving the Nonlinearity of Some Balanced Boolean Functions with Good Local and Global Avalanche Characteristics** (with Soo Hak Sung), *Inform. Proc. Letters* **79** (2001), 167-172.
41. **Good Lower and Upper Bounds on Binomial Coefficients**, *Journal of Inequalities in Pure and Applied Mathematics* **2:3** (2001), Art. 30.
42. **Counting the  $n$ -chromos of I.J. Schoenberg**, (with T.W. Cusick), *Journal of Combinatorial Theory, Series A* **79** (1997), 298-314.
43. **Bounds on the number of functions satisfying the strict avalanche criteria**, (with T.W. Cusick), *Inform. Proc. Letters* **60** (1996), 514-519.

#### 4. Publications in refereed conference proceedings

44. **Aliquots sums of Fibonacci numbers** (with F. Luca), accepted *Proc. International Conference on Fibonacci Numbers*, 2007.
45. **Remarks on a sequence of minimal Niven numbers** (with H. Fredricksen, E.J. Ionascu, F. Luca), S.W. Golomb et al. (Eds.): *SEQUENCES 2007*, Springer-Verlag LNCS 4893, 162-168, 2007.
46. **Graph eigenvalues and Walsh spectrum of Boolean functions**, Proceedings of the 'Integers Conference 2005' in Celebration of the 70th Birthday of Ronald Graham, (Carrollton, Georgia), Walter de Gruyter, 431-442, 2007.

47. **Fibonacci numbers of the form  $p^a \pm p^b$**  (with F. Luca), accepted in *Proceedings of the International Conference on Fibonacci Numbers* (2005), Kluwer.
48. **Results on Rotation-Symmetric Bent & Correlation-Immune Boolean Functions** (with J. Clark, S. Maitra), Lecture Notes in Computer Science, *Proceedings of FSE 2004*, Delhi, India; LNCS 3017 (R. Bimal, W. Meier, Eds.) 2004, XI, 485.
49. **Cullen Numbers in Second Order Recurrent Sequences**, *Proceedings of the International Conference on Fibonacci Numbers* (2004), Kluwer, 167-175.
50. **Almost Boolean Functions: the Design of Boolean Functions by Spectral Inversion** (with J.A. Clark & J.L. Jacob (York Univ.-UK), S. Maitra (Indian Stat. Inst.)), *Proceedings of IEEE Conference on Evolutionary Computation 2003*. Special Session on Evolutionary Computation and Computer Security. *Congress of Evolutionary Computation*, Canberra, Australia, December 2003.
51. **New bounds on the number of functions satisfying the strict avalanche criteria**, (with A.M. Youssef, T.W. Cusick, S.E. Tavares), *Selected Areas of Cryptology*, Queen's University, Kingston, Canada, pp. 49-56, 1996.

## 5. Work submitted or in progress

52. **Cryptographic Boolean Functions** (with T.W. Cusick), book draft, 2007.
53. **Sums of the Thue-Morse sequence over arithmetic progressions** (with T.W. Cusick), progress 2008.
54. **General Theory on Sums of Products of Binary Sequences** (with E. Kilic), progress 2008.
55. **On multiples with the same digit sum** (with F. Luca), progress 2008.
56. **On a conjecture of balanced symmetric Boolean functions** (with T.W. Cusick, Yuan Li), progress 2008.
57. **Factorizations and Representations of Second Order Linear Recurrences with Indices in Arithmetic Progressions** (with E. Kilic), progress 2008.
58. **Factorizations and representations of polynomials binary recurrences by matrix methods**, (with E. Kilic), progress 2008.
59. **On the nonexistence of bent rotation symmetric Boolean functions**, submitted.
60. **On Machin's formula with powers of the golden section** (with F. Luca), submitted.
61. **Amicable Fibonacci numbers** (with F. Luca), submitted.

## 6. Presentations at Conferences – National and International

1. **Nagy graphs and homogeneous bent Boolean functions**, Integers conference, West Georgia, 2007.
2. **Remarks on homogeneous bent Boolean functions**, Advanced Study Institute, Moscow, September 2007.
3. **Counting balanced polynomials over finite fields** (invited talk), AMS Sectional Meeting, Hoboken N.J., April 2007.
4. **Aliquot Sums of Fibonacci Numbers**, 12<sup>th</sup> International Conference on Fibonacci Numbers, San Francisco, CA, July 2006.
5. **Avalanche Features and Walsh Spectrum of Boolean Cayley Graph**, INTEGERS 2005 Conference in honor of R. Graham, Univ. of West Georgia, October 2005.
6. **Prime Divisors in Lucas Sequences** at Southeast Regional Meeting on Numbers at Univ. of South Carolina, Columbia, SC, April 2005.
7. **Group theory based public-key cryptography**, Zassenhaus Group Theory conference, Auburn University Montgomery, March 2005.

8. ***Counting Rotation Symmetric Functions***, *West Coast Number Theory Conf.*, Univ. of Nevada – Las Vegas, Dec. 2004
9. ***Fibonacci Numbers of the form  $p^a \pm p^b$*** , *11<sup>th</sup> International Conference on Fibonacci Numbers* (Braunschweig, Germany), July 2004.
10. ***To encrypt or not to encrypt, that is the question*** (invited lecture), IMATE-UNAM, June 2004.
11. ***Cubic Sieve Congruence Problem and Discrete Logs***, *West Coast Number Theory Conference*, Asilomar-CA, December 2003.
12. ***Graph Eigenvalues and Walsh Spectrum of Boolean Functions***, *Midwest Conference on Combinatorics, Cryptography and Computing*, U. of Nevada-Las Vegas, November 2003.
13. ***Cholesky factorizations of matrices associated to r-order recurrent sequences***, *INTEGERS 2003 Conference in honor of T. Brown*, Univ. of West Georgia, October-November 2003.
14. ***Exponents in the Factorization of  $n!$*** , *Southeast Regional Meeting on Numbers*, Univ. of North Carolina, March 2003.
15. ***Circulant Matrices, Trinomials and Diophantine Equations***, *West Coast Number Theory Conference*, San Francisco – CA, December 2002.
16. ***Cullen Numbers in Binary Sequences***, *International Conference on Fibonacci Numbers*, Arizona, June 2002.
17. ***Squarefree Catalan Numbers and Residues of Products of Factorials in  $\mathbb{Z}_p$***  - *Notions in Number Theory* (Invited Colloquium Talk), University of South Alabama, Mobile, March 25, 2002.
18. ***If Everything Else Fails, Generalize!***, Invited Talk at Mathematics Circle at USA, Mobile, March 25, 2002.
19. ***Netted Matrices and Fibonacci Sequences***, *West Coast Number Theory Conference*, Asilomar, December 2001.
20. ***Trade-off in the Design of Boolean Functions***, *15<sup>th</sup> Midwest Conference on Combinatorics, Cryptography and Comput.*, U. of Nevada-Las Vegas, October 2001.
21. ***Bounds on Binomial Coefficients with Indices Having a Common Factor***, *Southeast Regional Meeting on Numbers (SERMON)*, Furman University, SC, March 2001.
22. ***Catalan Numbers and Squarefree Binomial Coefficients*** (Special Session), Joint AMS-MAA, January 2001, New Orleans.
23. ***Chromos and Covering Residues Classes*** (Special Session), *Southeast Regional Meeting of AMS*, U. of Alabama-Birmingham, November 2000.
24. ***Atlas of Boolean Functions with Good Cryptographic Properties***, *Midwest Combinatorics, Cryptography and Computing Conference*, Wichita State University, October 2000.
25. ***Congruences Modulo  $s$  of  $s$ -Catalan Numbers***, *Southeast Regional Meeting on Numbers (SERMON 2000)*, April 2000, Blacksburg, VA, USA.
26. ***Powers of a Certain Matrix and Fibonacci Sequences*** (with Rhodes Peele), presented by R. Peele at Sermon 2000, Blacksburg, VA.
27. ***Mathematics and Cryptography: Beware of the ATM***, MAMS, November 1999 (invited by R. Underwood), Montgomery, AL, USA.
28. ***G-nonlinearity and bent functions***, *Fourth International Conference on Finite Fields and Applications*, Waterloo, Ontario, Canada, August 12-15, 1997.
29. ***Quadratic functions in Galois fields of characteristic 2***, *International Conference on Combinatorics, Information Theory and Statistics*, Maine, Portland, July 1997 (invited by H.F. (Skip) Mattson, Jr.).
30. ***Bent functions and a new definition of nonlinearity***, *MGO Conference*, Syracuse University, New York, April 1997.
31. ***Distribution of prime numbers-density results***, Institute of Mathematics of Romanian Academy, Bucharest, Romania, summer 1996.

32. *New bounds on the number of functions satisfying the strict avalanche criterion*, A. M. Youssef, T. W. Cusick, P. Stanica, and S. E. Tavares, Advances in Crypto '96 Rump Session Presentations on Boolean Functions, August 1996.
33. *Cohomology of finite groups*, Institute of Mathematics of Romanian Academy, Bucharest, Romania, summer 1996.
34. *Cryptosystems and attacks on them*, State University of New York at Buffalo, 1996.
35. *Infinite Galois Theory*, Institute of Mathematics of Romanian Academy, Bucharest, Romania, summer 1996.
36. *I presided a session on Calculus at the Mathematical Association of America* meeting held at Huntingdon College, Montgomery - AL, March 2001.
37. *I participated at The International Conference on Number Theory in honor of Heini Halberstam* at University of Illinois, Urbana-Champaign, 1995.

## 7. Journal Referee Services

I have reviewed papers as a referee for the following journals and conference proceedings: *Finite Fields and Applications*, *Discrete Mathematics Journal*, *Journal of Number Theory*, *Ars Combinatoria*, *ICALP 2005 (Spain)*, *Applied Mathematics Letters*, *Information Processing Letters*, *Electronic Letters*, *Integers-Combinatorial Number Theory Journal*, *Journal of Zhejiang University SCIENCE (JZUS)*, *Journal of Indian Statistical Association*, *Revista Colombiana de Matemáticas*, *Indocrypt: International Conference on Cryptography 2003, 2005 (Program Committee)*, *Proceedings of a Conference in Honor of Prof. J. Seberry (2004)*, *International Conference on Computers and Communications*, Romania, 2004, 2005, 2006, etc.

## 8. Computer Skills

- System Administration (servers running Solaris, RedHat Linux, approx. 70 computers running MS Windows 95/98/2000/Me/XP).
- Proficient in programming using Mathematica, Maple, Matlab; used C/C++, Fortran, Basic, Pascal, Python; advanced user of TeX, LaTeX, Microsoft Office, Netscape Navigator, Emacs, etc.; competent in operating applications under Unix/Linux, MS Windows 3.1, Windows 95/98/2000/Me/XP.

## 9. Grants, Honors and Awards, Memberships

- **NSF multi-year proposal** (submitted with T.W. Cusick), 2007.
- **NATO Award:** all expenses to attend and give an invited talk "Counting balanced Boolean functions of bounded degree" at the NATO Advanced Study Institute "Boolean Functions in Cryptology and Information Security" held at Zvenigorod (near Moscow), September 8-18, 2007.
- **Invited** to spend the summer of 2008 in the Mathematics Department of TOBB University of Economics and Technology, Turkey.
- **Co-editor** of Proceedings of the International Conference on Fibonacci Numbers, Patras, Greece, Summer 2008.
- **Research Initiation Program grant** NPS (2006-2008); Project: *Cryptographic Boolean Functions*
- **Distinguished Research Professor** at AUM (2004-2007)
- **Associate Editor** of the *Australian J. Mathematical Analysis and Applications* (2003-2006)
- **AUM Chancellor's grant** (2005)

- **AUM Research Grant-in-Aid**; Project: *Cryptographic Functions Satisfying Important Design Criteria: Local and Global Avalanche Characteristics, Nonlinearity*, received 2000.
- **Full Scholarship** during graduate studies, 1993-1998.
- Earned a full five-year **undergrad. scholarship** from the Univ. Bucharest (1986-1992).
- Awarded an additional **research grant** from the Romanian Ministry of Education during undergraduate studies (1990-1992).
- **Member of the Scientific Committee** of *International Conference on Computers and Communications*, Baile Felix – Oradea, Romania, May 27-29, 2004
- **Program Chair** for the International Conference on Cryptography - Indocrypt 2003, India
- **Research Award**, School of Sciences - Auburn Univ. Montgomery, 2002-2003.
- **Dean's Award**, School of Sciences - Auburn Univ. Montgomery, 2002-2003.
- **Junior Faculty Award**, School of Sciences - Auburn Univ. Montgomery, 2001-2002.
- Elected as **AFTICA (Associate Fellow)** in the Institute of Combinatorics and Its Applications - Canada, 2001
- Member of *Research Group on Inequalities and their Applications*, Victoria University – Australia, *American Mathematical Society* (since 1993), *Romanian Association of Mathematicians* (since 1992), *Mathematical Association of America* (since 1999), *Fibonacci Association* (since 2001), *Mensa International* (since 1990), *Phi Kappa Phi* (since 2001), Cited in *Who's Who in Combinatorics*, 2000, *Who's Who in Mathematical Sciences* (1997), *Who's Who Among Students in American Univ. and Colleges* (Fall 1996)

## 10. Graduate Students

- Carlos Fernandez, Master's, June 2007
- Spyros Pollatos, Ph.D. student, 2007-

## 11. University/School/Department Service

- Applied Math *Chair Search Committee* member, 2007.
- Managing (with R. Gera, C. Rasmussen) Finite Mathematics for Operations Research (1025), Bridge to Advanced Mathematics (2025) and Discrete Mathematics (3025) courses.
- Wrote a set of lecture notes for a number theory course (2005)
- Designed a graduate course on *Combinatorial and Cryptographic Properties of Boolean Functions* (Fall 2007)
- *PhD Committee* member (since 2006), Applied Mathematics, NPS.
- Served on *Math Department Faculty Search Committee*, 2003-2004 and 2004-2005.
- Served on the *Head of Math Department Search Committee*.
- *Faculty advisor* for the AUM Math Club, 2003-present.
- Member of *AUM Grievance Committee*, 2003-present.
- Chair of the *Tenure and Promotion Committee* for a faculty member, 2003.
- Serve on AUM's *Information Technology Assessment Committee*, 2002-present.
- Serve on *Mathematics Program Assessment*, *Freshman Mathematics Program Assessment*, and *Communications Committee*.
- *Co-Director for the Sciences Computer Center*, 2001-2003.
- Served on the *Computer Overview Committee* formed by the Dean of the School of Sciences, winter 2000 - spring 2001

## 12. Courses Taught (ug=undergraduate, g=graduate)

- *Advanced Combinatorics* (g)
- *Discrete Mathematics* (g, ug)
- *Abstract Algebra* (g,ug)
- *Number Theory* (g, ug)
- *Linear Algebra* (g, ug)
- *Bridge to Advanced Mathematics* (g)
- *Finite Mathematics for Operations Research* (g)
- *Finite Mathematics* (ug)
- *Precalculus Algebra and Trigonometry* (ug)
- *Business Calculus* (ug)
- *Single Variable Calculus I* (ug)
- *Single Variable Calculus II* (ug)
- *Multivariable Calculus III* (ug)
- *Ordinary Differential Equations* (ug)

## 13. REFERENCES:

- Prof. Thomas W. Cusick, State University of New York at Buffalo, [cusick@acsu.buffalo.edu](mailto:cusick@acsu.buffalo.edu)
- Prof. James L. Kays, Dean of Graduate School of Engineering and Applied Sciences, Naval Postgraduate School, [jlkays@nps.edu](mailto:jlkays@nps.edu)
- Prof. Hal Fredricksen, Applied Mathematics Department, NPS, [half@nps.edu](mailto:half@nps.edu)
- Prof. Clyde Scandrett, Chair, Applied Mathematics Department, NPS, [cscand@nps.edu](mailto:cscand@nps.edu)
- Prof. Dinesh Sarvate, College of Charleston, [sarvated@cofc.edu](mailto:sarvated@cofc.edu)
- Dr. Subhamoy Maitra, Indian Statistical Institute, [subho@isical.ac.in](mailto:subho@isical.ac.in)
- Dr. Florian Luca, Senior Researcher, Universidad Nacional Autónoma de México, [fluca@matmor.unam.mx](mailto:fluca@matmor.unam.mx)

## 14. Citizenship

Romanian citizen, US permanent resident